

## PATENT COOPERATION TREATY



## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference s021gm-1c23	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/KR2002/002319</b>	International filing date (day/month/year) <b>10 DECEMBER 2002 (10.12.2002)</b>	Priority date (day/month/year) 09 DECEMBER 2002 (09.12.2002)
International Patent Classification (IPC) or national classification and IPC  <b>IPC7 H01J 17/49</b>		
Applicant  <b>LG MICRON LTD. et al</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.  <input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of <u>37</u> sheets.
3. This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand  <b>02 JULY 2004 (02.07.2004)</b>	Date of completion of this report  14 MARCH 2005 (14.03.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  AHN, JOON JYUNG  Telephone No. 82-42-481-5984 

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. \_\_\_\_\_

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

☐ the international application as originally filed☒ the description:pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages 1-32 \_\_\_\_\_, filed with the letter of 28-01-2005☒ the claims:pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages 33-37 \_\_\_\_\_, filed with the letter of 28-01-2005☐ the drawings:pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_☐ the sequence listing part of the description:pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: English which is☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☒ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages \_\_\_\_\_☐ the claims, Nos. \_\_\_\_\_☐ the drawings, \_\_\_\_\_5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

BEST AVAILABLE COPY

## INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2002/002319

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	1-8	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-8	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-8	YES
	Claims	None	NO

**2. Citations and explanations (Rule 70.7)****1. Reference is made to the following documents from the International Search Report(ISR):**

D1: WO99/24999A1 (2000. 5. 20)

D2: WO98/01885A1 (1998. 1. 15)

D3: JP2000-169764A (JP12-169764A) (2000. 6. 20)

D4: WO99/10909A1 (1999. 3. 4)

2. The present application relates to a rear plate of a plasma display panel comprising, a glass substrate, electrodes, a dielectric layer, barrier ribs formed through etching technique, and phosphor layers with each part having specific electrical properties, a reflectnce, a thermal expansive coefficient, a etching rate, a average particle diameter of raw materials, barrier rib shape, etc.

3. D1 discloses a plasma display panel comprising a phosphor material of BaSrMgAlO:Eu, D2 discloses the shape and size of barrier rib for a plasma display panel, D3 discloses a plasma display panel comprising a dielectric layer made from the glass paste of a glass powder and a binder resin, and D4 discloses the height and base length of a stripe-like partition for a plasma display panel.

4. In view of the prior art, the subject matters of claims 1-8 appear to be novel in the sense of Article 33(2) PCT.

5. None of the documents cited in the ISR discloses the electrical properties, a reflectnce, a thermal expansive coefficient, a etching rate, a average particle diameter of raw materials, barrier rib shape specified in the present application. Since these teaching are not rendered obvious from the prior art, the subject matter of claim 1-8 appears to involve an inventive step in the sense of article 33(3) PCT.

6. The subject matters of claims 1-8 appears to be industrially applicable in the sense of Article 33(4) PCT.

**BEST AVAILABLE COPY**